an Essayon Water As an Adjuvant in Medicine Respectfully Submitted Faculty of the Homeopathic Medical Dollege Pennsylvania For the of Doctor of Medicine George & Poster Pittsburgh Pa Philada: February 1,1859

In writing upon a subject to universal as Water one can bring hits action many experiments generally, but an essay on Water as to its uses in Medicine the subject is somewhat narrowed; but still, for one who is accustomed to writing, and has unds and thoughts immunerable, at command, and especially one well read in Medicine, it would not be a very difficult tast.

But as I do not claim to be too well. read in the science, it cannot be expected that I should write as profoundly on the subject as an older and more experienced person.

What I propose to do hover,

myself, with different forms and bries of bath, and I shall also bring to my aid such references and confor-- matins as well as contradictions. I shall bruig forward cases from my own experience and The experience of others. I hope I may be able to ohow the manner and circumstances whenin Water many be used in accordance with the law Similia, I'm, Then, as to the article The physical properties of Warren are well Senowh, It is transparent, colorless, modernes, and bastless; Elightly compresseble by a very strong pressury: clastic; converted noto vapor by

heat; boils at 212° F; conglals at 32 F

It is the standard of weight, with which all tolid and liquid bodies are compared; its specific gravity is therefore 1.

Ware has the power of absorbing a great number of gaseous bodies.

It always contains air. It is one of the most powerful solvents in nature. It enters into combination with minul bodies.

The affinity of water for some subetances is so strong that it cannot be entirely sparated from them without at the same line decomposing the substance.

It enters into the composition of almost every substance. In annual and vegitable bodies it gives the necessary

fluidity of the blood of the former and the sap of the latter, without which neither could flow and be distributed throughout and nourish the different bodies. The blood contains 1/5th of its weight in water, as a proof of the large no-- portion of water entering with the Composition of the human body of. may mention a fact stared by Blumenbach mx: That a perfectly dry muning of an adult Granche (one of the original inhabitants of Tenentle) with all the muscles and viscera or internal organs entire, did not exceed seven and a half frounds in weight-Bone itself and cartilage contain still greater proportion of water Than blood, as a necessary constituent part

Ou illustration of the great proportion of water entering into the form and weight of the human body, is seen in the sunken shriveled, dimmished form of a stout man who has died after a few hours illusts with asiatie Cholera, there having been copinisherae-nations of trasm.

Harr was looked upon formerly as one of the elements, of which it was thought those were four, Earth, air, Fire, and ware,

Modern Chemistry however had demonstrated the fact that each of them are compound not sniple Elements, as for instance water is

2. Its history in connection with the healing art re -We find recorded in Genesis 1et 2 Mr. " and the earth was withour form and wid, and darkness was on the face of the deep, and the spirit of God mored upon the face of the waters. Me find the water was created before the earth had form, and we can our the wisdom of the Alwighty in forming the waters, and as a matter of course it was not made without prinfose, and arming other great uses it is claimed and claims. its place as a medicinal agent, or at least as a valuable adjurant. It has been used in all ages as a common household article, and Is

un dispensable to health. The uses of water are various (Wir) , Bathing, household purposes, as an adjurant to Merdicine and in The older time was used by the Gracks Altomans in their religeous, or-- durances se. We have in ancients history accounts of the baths, and it appears that great attention was fraid to thew. Bathing may with propriety be organded as a practice both congrued to our facilities of bodily comfort as well as conduciva to vigorous health, as to its autiquity we cannot doubt, as it is visorted to in every erage of society, from the wandering savage, to the mhabitants of large and orfued cities,

In the best description of ancient manners

we meet with accounts of bathing in rivers. Domestie baths are also of remote antiquity, as the for tells of andromache preparing warm baths for Hector on his return from battle; and of Penelope calling in their aid to mi-- ligato her meloucholy at the prolonged absence of her husband, Minera is frig--ned to have imparted renewed nigor to the wearied lines of Arrentes at the warm Springs of Thermopyla. Homer gives frequent account describing the custom of famales attending the male quests and assisting them in their ablutions. . He could give account from Saend His--tory of the importance attached to bathing as a means of cure of loathsome disease, as can be clustrated by the order

of Elisha to name the leper to wash seven times in the vives Jordon, and in John, where is the account of our Samin communicating the blind man to wash in the pool of Silvan.

The pool of Bethesda was also orserted to by the sick and infirm but as to the medicinal qualities of the water we know nothing, and if they had not had faith a cure would not have been wrought.

As typical of moral purity, bathing by frequent ablutions, and minutersions, was made to form part of the of the orliquious rites of the inhabitants of bentral asia and the East.

The Greeks were doubtless familiar with buthing, but were indetend to the Egyptions for going system to bathing as

part of the medical art. Bathswer princtimes called sacred by the ancients Bathing was regarded as a luxury as well as an observace of hygiene in ancient Egypt, as seems to be proved by the circumstances of its being prohibited during times of general mourse - hig. Boerhaar, who was a dis-- Augushed practiturer, trachertunder nothers serval sentences in praise of the dietate value of warr, among them we read the following, -To That Jure and light warrs are agricable to the different natures and constitutions of all new-2° That ou remedy can more effectually secure health and prevent disease than Jours water, That druthing of water

Is conceable in every complection. Hoffmann calls it anthurissal remedy" and "ur assert" he says, "That waren is a rainedy suited to all gressins at all Cines; that there is no better preservation from distrupers; that it is assundly serveable in acute and Chronic diseases! and lastly, that its use auswers to all indication, both of preservation and cure. -Aippocrases, give some pricese indications to those who are suffer ang from disease -To Jusses whose bellies are hard and easily burnt up, by which we

may understand the bilious kruperament and costine habit, the sweetst and lightest, and the most limped will be proper, but shore whose bellies are roft, loose, and Juliutus, lipuphatic surperament, with sendency to looseness of the bowels," should choose the hardest water to-

Mouch more onight doubtlef be written under this head, but the abon is sufficient for this paper_

3d Its Physiological effects—
For the sake of clearnes we shall divide

it into three parts or agentsa- The coed bath, from fraging to 60°

B- The Kpi'd bath from 60: to 90°

6 - The hot bath from 100° represend

A- Effects of cold both — Chill, shirming, hale shmutton Sin, collapse in the cutamens and

Superficial Orssels; Slowness of circu--lation, generall depression of all functional action connected with the stru, and excreting eighten. Deuse of suffocation and constriction in the epigastiem, comgard etim, labored breathing; difficult speech, loss of voice; depression of circulation; blueness of the skin; pain and cramps in muscles, numbress; hippocratic courtenance); Sunken lyes so; Determination of blood (to internal organs-Uses (Old Ichvol) Galen, not in cold Thin hersons to, Hopvorates, Inflama-- tions, hemorohages, convulsir affec--tuns, with vascular excellent, Firm Hydropathie USE; The Hydropathist

use cold warm in pretty much the Danie diseases as an mentioned under Old school, ie - Fierers, Inflamations, hemmage toto. Homoopathic Uses -1st General Chileniefs; Chills; Colds; Chills preceding an attack of first & 2° Habilaal coldness; slowness or depression of circulation; stiffered foints; Jurylysis (sentent or nurth news) 3, Suppressed herspiratin from cold Coldness of surface -4th Suppression of secretions; Mensmal flow (sett or compress Urine " Faces - Lyichin; Durch tath I'm Torpidity of the functions of rance

Ot Ead - tendency of blood, sire or for bath Chest Sim Head-and horthache for bath 6th Mechanical injuries (200 years ago) Bruse to Cold water munediarly after the tigury yth Frost bire 8th Cholera (hot druits cold applications) 9th Intermettent from (during the chill a shower bath rengeold) 10th Disease of the offin 11th Importancy (coved site) To - Effects of hot, warm or Aspid bath from 60° and upward, -Inercase in frequency and force of the circulation or pulse.

Reduess and hear of the skin or surface fullues of superficial vissels; resperation hurried, Muid of tuse and mattenting, Vertigo, excessive perspiration; bufus-- ion of thoughts; dunnels of sight; hain in head; Urging to uniale "De Lockette in his experiment runarks My sensations war procesely such as they are in a violent sare of free. Dantin, Persons, Sangunous, plesh--oric, full large head, should use the hot or warme both with great caution. . (Uses Old John)-Persons of cold still bodies; to gives nervis; Countsiens; hysterical affections; Colic; Insancty; Bilins Colic, Cholera Morbus; Cholera Sufantum; Croup; du-- fluenta; Bonchetis; asthma, dufla-

- mation of liver re re Intermittent fiver during the chill, Congestire fever; Cholera cramps; affection of the skin to Cautin, Debilitated persons should avoid warin bashs, except some febrile exextenent ormain. Mydropathie Uses about the sauce as mentioned under old School, as they go portly much by Contranés -Course opathic Uses-1et Synvchal firer: any firer character-- used by great hear of surface, rapid Julser, 2" Great vascular excitment se. 3' Apopleyy; diriness, headache, hear in head 4 th Delerium, Susanity (with febrile ayulung)

Ith Intermittent four (hot stage 6th Inflamatory afections-Burns, Sujune (Inflamating Stage) Whitlow or Felow; Inflamed enrelings, Inflammatory Rheumatism Inflamation of eyes, and of ear-Emplire ferr, Measels Scarlatina (c) General Rules In affections with excited action, Vascular or nervous, use always a bath higher than the temperature of the body. Contra

In depressed vascular or newows action, use a both lower than the hunperature of the body immersed in it,

I have given the third degrees of both and the three different schools put them to as a curation agent—

The first and sole duty of the physician is, to restore health to the siet, This is the me art of healing! The perfection of a cure consists in restoring health in a prompt, mild, and permanant manner, in running and annihilating disease by the shortest, safest, and most certain means, upon principles that are at once filain and intelligible, (organin)

If we know not the Character of drugs we cannot apply them rationally to the cure of disease, and if we wish "to restore health to the sick, in a prompt mild, and permanent manner" Womest understand the remedies we would use, and we are tample than Hahnemann's himself, to prove the drugs on our own persons: This has been

done until we have volumes of Makina Medica; but Wake, has not been from the Wake, has not been from the Why should we not have a proving of it? It is an invaluable agent, a system of oure has been established, which has for its only remedy (what ever may be the case) trater.

Mon attention should be paid to this article by physicians, experiments should be made, I shall now gin what few experiments I have made with the rules by which I was quidedThe following are the rules I followed in my experiments—

1st note the temperature of the som—
2° The sumber of pulsations for minute
3° The sumber of pulsations for minute
4th The busperature (a) in month; b

in axella; O-in popliteal space; d at plantar surface of foot-Immerse the entire body except the face in waterfor note the Ruperature of the water 2° At the end of two minutes note @ The Julse; & the orspirations 1) The temperature of mouth -3 at the end of five nimules, leave the water, and note the points Q; 6, @ and d, he section first, logether with the sousations and so forth, letheranced during the bath -4th After being out of the water fire or ten minute, make same observa--tim again 1 3'-During the day or two succeeding note syntoms both subjection and

objective, as in the priving of any other substance.

For a considerable time I have experieuced, a dull heavy sensation in forehead, fires as if I could hull an envelope from off my brain, Sometimes had quite sever headache. The painti forshead sometimes shoot back and at times is quite wharp at sinciput. For a few days have had a bramig down pressing sensation at anns, Constipation, at lines, at present feel much orleind Had herunhinds live years ago. Health generally good, Had an Men on middle third night leg in the Spring of 1837 healed during the cumuer, but left a copper colored spot about the

sixe of a silver dollar, I feel at times a very sharp pain dart Tho: the place. Occasionally pimples appear on my face and firshead, and have had them for a long time on my shoulder, also some on legs, May 12/57. Have been very unwell, freluig of enlargment in Hypochendrum, dull pain; a sharp shooting pain up to shoulders, Sever frontalheadache se In evening was much better, farling of cornes in Aprogashum

The first experiment I made, would be classed under the head of eved bath Temperature of rown 82° Fah: and of the water 63° Fah:— I remained in the bath about two minutes

unuediatly on immersion, my breathing because hurried and quite loud & labored, as if a light bundage were around my chest, a chillings cript our me from my fret to the top of my head. I had suffered for a day or too with a frusal headache, which had been releved by Bella. and while in the bath it re--turned vary servely, my head felt heavy and full, The water created the sensahm of coldness. I had intended remaining in the bath for the period of fire minutes. and I was under the impression that I had done so (I had only bren in two min.) Upon quitting the bath, any head filt My heavy, I could searcely control my--self, I staggered so, that I should have fallen to the floor, if I had not oatdown

on a Chair which was near; diminished temperature and paleness of the skin, effacement of the superficial Vins, stop--page of the functions in hart or wholy dependent on the capillary systeme. About an hour and a half after the bath a feeling of weakness in both knees, finger nails Jurple, Julse 85, Vertigs_ A succession of Chills from cocype up back, after the bath a pleasant glow Pulse, before entering the bath was braking at the rate of 64 a minute and full, after I had gotten out of the bath it had encreased nine beats a munde making 73 a munulo -Respiration, before enting was 16 m minute and upon quetting the bath it had increased

four & munite, maring lurnty respirations a munite, being quite hurried. 6 Temperature of muth before annersin 92° Tak: after learning the bath 90°, a decrease of Im degrees. I, Temperature of anulla before innersion, 95° Fah; after leaving the bath 90. tah, a decrease of 50 @ Temperature of propliteal space before unnersion 95° after learning the bath 90°, a decrease of 5° d, Temperature of plantar surface of foot befor inversion 80° Fah after learning the bath 83°, an increase of 3°_ The second trial was but a short one, as I had not time to go wito it as thornighly as I should have wished. Temperature of rown 82° Fah - Warre 70° Jah humber of Julsations at wist a munite 76.

after getting out of bath 61, to minutes after 66, an hour and a half after 85. and full Rumber of respirations a minute 20, during the bath 23, after bath a few minutes 22, Temperature of axilla before the bath 93° Fah after 90/2°. Temperature of month before the bath 91° after 90° Temperature propletral space before bath 91°, after bath 90°-Cemperature plantar surface of foot before both 91°, after bath 89°-Chiles all om my body; oppressin at the chest; continual and quite whent chirering, Oppression in furhead, Pulse 74 and small; Vrius collapsed; Chin pale,

From the sepusous presented it will be seen that Water onight be made a much more useful article to the physiciain than it is -

Physicians cannot be to careful in prescribing eved baths, I know of a case, and I have no doubt that they can be multiplied, a young lady about 18 years of age at the time, of a very newous temperament, who was much prostrated, delerious and dangermsly all from the effects of a cold bath form-- seribed by a Hemosopathic physician, Instead of the cold bath abour presentes The Threed have been directed to lake a chinge bath, every morning in mod-- erally cool water, until, her nerms System would become accus housel

to cold water, en intermittent firm, Water as an anxiliary to Humocopathic practice is generally acknowledged to be very useful. In such cases the ohnver bath is used, D'Howe of Mils. orpost cases, he says, the eved thower bath should only be used, as the commence--ment of a chill, and only in those patients, who have sufficient tality in their system for a ready reaction, after its application, the hateus must be will subbed after the bath, his mulsemust be carefully watched, and should it be found surring a dose of cine: Camph: should be administend, -But I must close This Essay, hoping that some one will do the fish the sub-- feet which I have failed

J'ims 5